COGNITION on Cognition. Edited by Jacques Mehler and Susana Franck. MIT Press/Elsevier, Cambridge, MA/the Netherlands. (1995). 486 pages. $45.00.

Contents:

Preface: Building *COGNITION* (Jacques Mehler and Susana Franck). I. Neuropsychology. 1. Insensitivity to future consequences following damage to prefrontal cortex (Antoine Bechara, Antonio R. Damasio, Hanna Damasio and Steven W. Anderson). 2. Autism: Beyond "theory of mind" (Uta Frith and Francesca Happé). 3. Developmental dyslexia and animal studies: At the interface between cognition and neurology (Albert M. Galaburda). 4. Foraging for brain stimulation: Toward a neurobiology of computation (C.R. Gallistel). 5. Beyond intuition and instinct blindness: Toward an evolutionarily rigorous cognitive science (Leda Cosmides and John Tooby). II. Thinking. 6. Why should we abandon the mental logic hypothesis? (Luca Bonatti). 7. Concepts: A potboiler (Jerry Fodor). 8. Young children's naive theory of biology (Giyoo Hatano and Kayoko Inagaki). 9. Mental models and probabilistic thinking (Philip N. Johnson-Laird). 10. *Pretending* and *believing*: Issues in the theory of ToMM (Alan M. Leslie). 11. Extracting the coherent core of human probability judgment: A research program for cognitive psychology (Daniel Osherson, Eldaar Shafir and Edward E. Smith). 12. Levels of causal understanding in chimpanzees and children (David Premack and Ann James Premack). 13. Uncertainty and the difficulty of thinking through disjunctions). III. Language and perception. 14. The perception of rhythm in spoken and written language (Anne Cutler). 15. Categorization in early infancy and the continuity of development (Peter D. Eimas). 16. Do speakers have access to a mental syllabary? (Willem J.M. Levelt and Linda Wheeldon). 17. On the internal structure of phonetic categories: A progress report (Joanne L. Miller). 18. Perception and awareness in phonological processing: The case of the phoneme (José Morais and Régine Kolinsky). 19. Ever since language and learning: Afterthoughts on the Piaget-Chomsky debate (Massimo Piattelli-Palmarini). 20. Some primitive mechanisms of spatial attention (Zenon Pylyshyn). 21. Language and connectionism: The developing interface (Mark S. Seidenberg). 22. Initial knowledge: Six suggestions (Elizabeth Spelke). 23. What *is* folk psychology? (Stephen Stich and Ian Ravenscroft). Author index. Subject index.

Mathematical Models for Handling Partial Knowledge in Artificial Intelligence. Edited by Giulianella Coletti, Didier Dubois, and Romano Scozzafava. Plenum Press, New York. (1995). 308 pages. $89.50.

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Invited papers. Ellsbeg paradox intuition and Choquet expected utility (A. Chateauneuf). Fuzzy logic as logic (P. Hájek). Mathematical foundations of evidence theory (J. Kohlas). Semantics for uncertain inference based on statistical knowledge (H.E. Kyburg). Prospects and problems in applying the fundamental theorem of prevision as an expert system: An example of learning about parole decisions (F. Lad and I. Coope). Coherent prevision as a linear functional without an underlying measure space: The purely arithmetic structure of logical relations among conditional quantities (F. Lad). Revision rules for convex sets of probabilities (S. Moral and N. Wilson). Some mathematical tools for decision making under partial knowledge (H.T. Nguyen). From Bayesian networks to causal networks (J. Pearl). Contributed papers. Generalized concept of atoms for conditional events (A. Capotorti). Checking the coherence of conditional probabilities in expert systems: Remarks and algorithms (G. Di Biase and A. Maturo). A hyperstructure of conditional events for artificial intelligence (S. Doria and A. Maturo). Possibilistic logic and plausible inference (D. Dubois and H. Prade). Probability logic as a fuzzy logic (G. Gerla). Algorithms for precise and imprecise conditional probability assessments (A. Gilio). A valuation-based architecture for assumption-based reasoning (R. Haenni). Computing symbolic support functions by classical theorem-proving techniques (U. Hänni). Inconsistent knowledge integration in a probabilistic model (R. Jiroušek and J. Vomlel). Conditional and comparative probabilities in artificial intelligence (P. Vicig). Roundtable. Panel discussion (R. Scozzafava (Chair)). List of participants to the workshop. Index.

Comparative Approaches to Cognitive Science. Edited by Herbert L. Roitblat and Jean-Arcady Meyer. MIT Press, Cambridge, MA. (1995). 533 pages. $55.00.

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Preface. Introduction. I. Introductory issues. 1. Comparative approaches to cognitive science (Herbert L. Roitblat). 2. The animat approach to cognitive science (Jean-Arcady Meyer). 3. Creative creatures (Margaret A. Boden). II. Intentions and the organization of behavior. 4. Animal behavior in four components (Bartlett W. Mel). 5. Intentionality: Natural and artificial (Colin Allen). 6. Do animals have beliefs? (Daniel C. Dennett). 7. Cognitive ethology and the explanation of nonhuman animal behavior (Marc Bekoff). 8. Perceptual control theory (W. Thomas Bourbon). III. Representation. 9. Natural and relational concepts in animals (Roger K.R. Thompson). 10. The integration of content with context: Spatiotemporal encoding and episodic memories in people and animals (Julie J. Neiworth). 11. Spatial information processing in animals (Catherine Thinus-Blanc). 12. Complex adaptive systems as intuitive statisticans: Causality, contingency, and prediction (Patricia W. Cheng and Keith J. Holyoak). IV. Memory and attention. 13. A model of the brain and the memory system (J. Delacour). 14. Factors in visual attention eliciting manual pointing in human infancy (George Butterworth). V. Communication. 15. Language and animal communication: Parallels and contrasts (Christopher S. Evans and Peter Marler). 16. Toward the acquisition of language and the evolution of communication: A synthetic approach (Michael G. Dyer). VI. Motivation and emotion. 17. Opportunity versus goals in robots, animals, and people (David McFarland). 18. Animal motivation and cognition (Frederick Toates). 19. Cognition and emotion in animals and machines (J.R.P. Halperin). 20. Emotions in robots (Nico H. Frijda). Contributors. Author index. Subject index.